Relativity to Theory

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To the Reader

In this booklet, I have collected some of my thoughts about the universe, and related theoretical considerations of scientists, e.g. about the theory of relativity. The reason for my interest is e.g. the fact that some expert claims seem strange and maybe even wrong from the point of view of an ordinary person.

However, as a philosopher, psychologist and social scientist, I do not challenge mathematicians, physicists and astronomers. They can challenge each other when they are inspired to ponder the mysteries of the universe.

Artificial intelligence has provided opportunities to evaluate theoretical models, such as Einstein´s model of the relationships between energy and mass. I

have taken advantage of this opportunity in my reflections.

One impetus to my meditations is the master's thesis I wrote in psychology on human's ability to judge time. I measured the ability to judge time by three different methods, the level of abstraction of which varied. The research was based on my idea that time is based on motion, and that time itself is a theoretical concept in the human head, more or less detached from the perceiving.

I hope that these articles will arouse the reader's interest not only in man but also in the universe and encourage him or her to question things that are considered eternal truths.

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Kyösti Waris

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Miscalculations of the Essence of Matter

Arithmetic deals with positive and negative numbers that are relative to an imaginary zero point. According to arithmetic, numbers with different signs cancel each other out. This is apparently also the basis of the concept of matter and antimatter, which have the same property in relation to each other. However, is this a physical reality?

Matter consists of an atomic structure, where particles with different electrical charges orbit each other. Together, they form a functional whole, and they by no means destroy each other. The structure of star systems resembles this basic structure of matter.

Apparently, the concepts of visible and dark matter - and their relationship to each other - are also based on arithmetic thinking. We are talking about black holes that swallow visible stars and also each other. What if it's just matter and the speed of its movement? When the movement exceeds the speed of light (approx. 299,793 km/s), matter becomes invisible. And as the motion slows down (the so-called 'bursts' from black holes), it becomes visible.

In Einstein's theory of relativity, the formula is presented: $E=mc^2$ where E=energy, m=mass and c=speed of light. Based on the formula, e.g. assumed that energy could be directly converted into mass and vice versa.

The claim seems questionable. The fact that the equations have identical sides does not mean that one can turn into the other. Of course, some part of the energy can turn into matter, for example in the

plant photosynthesis, where mass is created as a result of energy (sunlight).

The formula mentioned above may also be incorrect in another way. I used artificial intelligence (ChatGPT) to my advantage and calculated, using Einstein's formula, how much energy is contained in, for example, one gram of water (H_2O).

The result was an amount of energy that corresponds to approx. 22,000 tons of explosives (TNT). That is, even more than the amount of energy of the atomic bomb that was dropped on Hiroshima in the last world war. The result does not seem credible. For example, this has been tried to be explained by the fact that if the question was about pure energy, which is created when matter and antimatter cancel each other out, the formula would hold true.

In chemistry, we talk about the law of non-disappearance of matter. According

to it, matter does not disappear, but only changes its form. However, this has been mitigated by stating that the law applies to a limited space. So, it is presented that, for example, when wood burns, matter turns into gases, and the mass created as a result of combustion is exactly equal to the chemical substances involved in the event. In combustion, energy is released as water vapor, heat, and light - *but it disappears*. All that remains is ashes.

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Time – the fourth Dimension or Hallucination?

The concept of human time is based on the movements of masses, heavenly bodies: the earth revolves around the Sun and the Moon around the Earth. If there is no movement, there is no time. The movement that is the basis of time measurement is quite steady.

In the human mind, time sometimes passes faster, sometimes slower. This is influenced by many factors, such as age, events and expectations. A person's own biological rhythms also apparently affect the experience of time. In my master's thesis (psychology), I found e.g. that some

people experience time passing faster than others.

In the three-dimensional space we know, there seems to be only masses and their movement relative to each other. This creates gravitational fields between the masses.

Humans are able to measure and anticipate to some extent the movement of masses with the help of their own concept of time. However, I think it is wrong to think of time as a separate physical dimension: the concept is theoretical. So, also the so-called time travel, i.e. physically moving backwards or forwards in time, feels mostly like wishful thinking.

However, there are strange cases of time shifting that have not been able to be explained. One such is the events experienced by the British *Dorothy Louise Eady* (1904-1981) during the reign of the ancient Egyptian pharaoh Seti I. The person

said that she was a high priestess in the Pharaoh's court and his mistress.

Although the person in question, *Omm Seti* or *Omm Sety*, as she called herself, was a complete layman when it came to ancient Egyptian archeology, she was able to tell accurately e.g. details about the temple of pharaoh Seti I that even researchers did not know. On the other hand, she was able to know things that were only known to Egyptologists. She got these abilities after a severe accident when she was a child. - There are other similar strange cases.

The above makes you think about whether a person has psychic abilities to see beyond conventional knowledge. And if so, what is the role of genetic inheritance in this? Do some people have the ability to see into the future, based on which direction they foresee events 'moving'?

In addition to the visible, three-dimensional world, could there be a fourth dimension, *timelessness*, that some people occasionally connect to. In that dimension, distances and speeds would not matter, and there would be no gravity. There, the 'speed of light' is exceeded: objects can be connected to each other at the same time, regardless of the distance. In quantum physics, particle experiments have obtained similar results.

The theory of relativity talks about the possibility that space-time could bend. The idea is that in this way the distance between different parts of space can be shortened. We are talking about portals and wormholes, through which a travel to another part of space would be possible.

Masses can indeed form the strangest formations, but at least they cannot be 'bent' artificially. Of course, it is possible that a speed greater than visible light exists, but so far there is no evidence of it.

Measurement Errors of Space

The distances of celestial bodies and star systems are usually expressed in light years, i.e. the distance light travels in a year when its speed is approx. 299,793 km/s. So even one light year is a very long distance.

Until now, humans have been able to measure the distances of celestial bodies in our own solar system using radio signals. It has been possible to state e.g. that the dwarf planet Pluto, which is located at the outer limits of our solar system, is approx. 5.5 light hours away from the Sun, while our own planet Earth is approx. 7-8 light minutes away from the Sun. For the sake of comparison, let's state that the Moon orbiting the earth is about one light second away from the Earth.

When the satellite is pointed from the vicinity of Pluto towards the Sun, it appears as a bright star against a black background. - What can be concluded from this? When our own Sun looks like a bright star a few light hours away, it is likely that the nearest stars outside our own solar system are much closer than previously thought. It has been suggested that the nearest star, Proxima Centauri, would be 4.24 light years away from Earth. This is probably just an assumption and seems very implausible.

Space is assumed to be made up of numerous star systems, the most distant of which are thousands of light-years from Earth. In this case, we are talking about distances that humans have no idea about, not to mention that such distant systems could be observed. It is likely that many of the star systems observed in different locations are the same.

What does the "shrinking" of the universe, I assume, mean? For example, that it is possible for the inhabitants of alien star systems to visit our own solar system, at least in a technical sense and with the help of robots. The much-talked about UFO sightings can tell us about this. Alien space tourism is therefore entirely possible, especially if the visitors have access to technology that can exceed the speed of light.

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The Future of our Solar System?

Star systems seem to behave biologically: stars are born and die according to a certain process, just like biological organisms, for example humans. I think that space is actually a biological construct, although from a human perspective it looks very physical and mechanical.

A common feature of many star systems are binary stars that orbit each other. This is apparently typical of old systems. - Could our own solar system develop in the same direction? I think it can.

Our solar system has e.g. the giant gas planet Jupiter, which is orbited by many celestial bodies called moons. Jupiter's gas atmosphere contains the same

elements (e.g. helium and hydrogen) as our own Sun. All that is needed is the stimulus that starts the nuclear reaction (fusion). However, astronomers claim that this is not possible because the mass of Jupiter is not enough to cause a nuclear reaction. It may be that not all the properties of the physical world are known enough to expect something like this.

It is also possible that man himself will invent ways to start a nuclear fusion reaction in Jupiter. If and when this happens, Jupiter's moons may become habitable places for humans. This way our solar system would turn into a double star system, where humans would have life possibilities.

Familiar writings from the Bible come to mind, where God speaks in this way: I will create new heavens and a new earth, where righteousness (justice) and peace will prevail. - This could probably only be possible when the wild, selfish, greedy

and violent people, communities and organizations that resemble cancer cells have disappeared as a result of their own stupid actions. - The robot-like people and communities that harm each other, other life forms and threaten to conquer even space (a large organism) with their megalomaniacal and greedy thoughts.

Another passage from the Bible comes to mind, where God says: Even if you make your home among the stars, even from there I will throw you down.

If the universe is a conscious organism, the Lord of space, as I suppose, might think that he has his own methods for identifying cancer cells and his own remedies for controlling and preventing cancer. The selection of remedies can include, for example, 'radio and cytotoxic treatments'. He reluctantly has to use these as a last resort if the attempts to get the cancer cells to heal fail.

Before the final measures, God's messengers, the 'company's' own trusted persons (prophets, Jesus and many others), have urged people throughout the ages: 'Repent!' Improve your habits and stop destroying people, nature and the planet!

Such a speech has, as expected, not pleased those listeners who would like to be the masters of the worlds themselves, to rule everything and everyone and own everything without caring about the consequences. So, the fates of those messengers have often been harsh: they have been abused and killed. To remedy the situation, the Lord of life seems to have a 'treatment plan' ready for those who destroy life, and a plan also for those who want to protect life.

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